



Science and Engineering at Henderson DUSEL Capstone Workshop
Stony Brook University
May 4-7, 2006

http://nngroup.physics.sunysb.edu/husep/Henderson_DUSEL_Capstone/

The purpose of this workshop is to provide an opportunity to the DUSEL community to contribute to the conceptual design of a Deep Underground Science and Engineering Laboratory at the Henderson Mine, Colorado.

A preliminary conceptual design has been developed by the HUSEP (Henderson Underground Science and Engineering Project) collaboration based on the input from six topical workshops we held during the past 6 months (Management, Strategic Vision, Biology, Physics, Geoscience, Mining Engineering as well as accompanying outreach workshops), the earlier DUSEL Solicitation-1 workshops and interim reports, and private discussions between over 100 collaboration members and the DUSEL community.

On the first day of the workshop the current status of the Henderson DUSEL conceptual design will be presented. An essential component of the workshop will be a series of presentations on the second and third days in which potential users of DUSEL will present their proposed experimental program with an update at the workshop that includes a critique of the Henderson DUSEL conceptual design. The Henderson Conceptual Design Report will include a concept for an initial suite of experiments and a vision for the long term development of the laboratory science program. All members of the DUSEL community are cordially invited to submit a 1-page Expression of Interest (EoI) along with any supporting materials to make a presentation at the Workshop by March 31, 2006.

To guide the community in planning for experimental programs at Henderson DUSEL, we provide here a preliminary timeline for availability of different regions of the proposed laboratory at Henderson:

Fall 2006: NSF decision on Solicitation-3 award

2007: Call for Letters of Interest

2008: Henderson DUSEL Design Complete – Technical Design Report (TDR)

The TDR will include funding request for an initial suite of experiments.

2009: NSF DUSEL Award, Ground breaking

2010: Upper Campus (2500-3300 mwe) available for occupancy
[Note: 2500 mwe could be available as early as 2008 depending on NSF's early decision.]
Access for geoscience and bioscience to some areas of existing mining area.

2011: Central Campus (4200 mwe) available for occupancy.
Geoscience and bioscience program integrated into excavation plan.

2012: Geoscience Station under the Henderson ore body available for experiments

2014: Lower Campus (6000 mwe) available for occupancy.
Geoscience and bioscience program integrated into excavation plan, which includes two passes underneath the Henderson ore body.

2014: Deep Exploration Station (6000 mwe) available for experiments

Whether you plan to attend the workshop or not, you are invited to submit a 1-page EoI, to Chang Kee Jung alpinist@nngroup.physics.sunysb.edu and Bob Wilson wilson@lamar.colostate.edu. The EoI should include: a brief description of your proposed experimental program; space needs and any other needs such as cleanliness, *etc.*; which campus will be most suitable for your experiment; an estimate of when you would need occupancy both for prototypes and initial installation. You are encouraged to submit additional supporting materials along with the EOI. Indicate also if you would like your experimental program to be considered for full or partial funding as part of the proposed initial suite of experiments to be included the TDR.

There is no registration fee for this workshop. We urge all participants to register as soon as possible using the online registration form on the Workshop webpage: http://nngroup.physics.sunysb.edu/husep/Henderson_DUSEL_Capstone/

Feel free to distribute this announcement to your colleagues who may be interested in participating in the Workshop or in submitting an EOI.

We are looking forward to seeing you all at the Workshop at Stony Brook in May.

Chang Kee Jung, Spokesperson and Bob Wilson, Deputy Spokesperson
HUSEP Collaboration